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FULL ESTIMATED COST	0.21	0.21

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=> D HIS

(FILE 'HOME' ENTERED AT 09:08:31 ON 27 NOV 2002)

FILE 'CAPLUS' ENTERED AT 09:09:13 ON 27 NOV 2002

=> S COMPOSITE OR LAMINATE

232050 COMPOSITE  
140261 COMPOSITES  
264548 COMPOSITE  
(COMPOSITE OR COMPOSITES)  
74468 LAMINATE  
55931 LAMINATES  
91677 LAMINATE  
(LAMINATE OR LAMINATES)

L1 340946 COMPOSITE OR LAMINATE

=> S CHEMICAL (L) BARRIER (L) FABRIC

784470 CHEMICAL  
41972 CHEMICALS  
820748 CHEMICAL  
(CHEMICAL OR CHEMICALS)  
1248266 CHEM  
56864 CHEMS  
1279811 CHEM  
(CHEM OR CHEMS)  
1849494 CHEMICAL  
(CHEMICAL OR CHEM)  
162736 BARRIER  
42619 BARRIERS  
182847 BARRIER  
(BARRIER OR BARRIERS)  
85052 FABRIC  
76194 FABRICS

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117223 FABRIC
      (FABRIC OR FABRICS)
L2      57 CHEMICAL (L)BARRIER(L)FABRIC

=> S THERMOPLASTIC POLYOLEFIN ELASTOMER
      83853 THERMOPLASTIC
      21155 THERMOPLASTICS
      90415 THERMOPLASTIC
            (THERMOPLASTIC OR THERMOPLASTICS)
      56358 POLYOLEFIN
      42760 POLYOLEFINS
      72743 POLYOLEFIN
            (POLYOLEFIN OR POLYOLEFINS)
      31734 ELASTOMER
      28289 ELASTOMERS
      47424 ELASTOMER
            (ELASTOMER OR ELASTOMERS)
L3      150 THERMOPLASTIC POLYOLEFIN ELASTOMER
            (THERMOPLASTIC(W) POLYOLEFIN(W) ELASTOMER)

=> S TPO
      2552 TPO
      116 TPOS
L4      2611 TPO
            (TPO OR TPOS)

=> S TPE
      976 TPE
      207 TPES
L5      1111 TPE
            (TPE OR TPES)

=> S THERMOPLASTIC (L) POLYOLEFIN (L) ELASTOMER
      83853 THERMOPLASTIC
      21155 THERMOPLASTICS
      90415 THERMOPLASTIC
            (THERMOPLASTIC OR THERMOPLASTICS)
      56358 POLYOLEFIN
      42760 POLYOLEFINS
      72743 POLYOLEFIN
            (POLYOLEFIN OR POLYOLEFINS)
      31734 ELASTOMER
      28289 ELASTOMERS
      47424 ELASTOMER
            (ELASTOMER OR ELASTOMERS)
L6      1738 THERMOPLASTIC (L) POLYOLEFIN (L) ELASTOMER

=> D HIS

      (FILE 'HOME' ENTERED AT 09:08:31 ON 27 NOV 2002)

      FILE 'CAPLUS' ENTERED AT 09:09:13 ON 27 NOV 2002
L1      340946 S COMPOSITE OR LAMINATE
L2      57 S CHEMICAL (L)BARRIER(L)FABRIC
L3      150 S THERMOPLASTIC POLYOLEFIN ELASTOMER
L4      2611 S TPO
L5      1111 S TPE
L6      1738 S THERMOPLASTIC (L) POLYOLEFIN (L) ELASTOMER

=> s l1 and l4 and l2
L7      1 L1 AND L4 AND L2

=> s l2 and l5 and l6
L8      0 L2 AND L5 AND L6

```

AN 2000:899631 CAPLUS  
 DN 134:354359  
 TI Breathable films from **TPE** with ether soft segment  
 AU Johnson, Larry; Schultze, Dirk  
 CS Deerfield Urethane, Inc., South Deerfield, MA, 01373, USA  
 SO TPE's 2000: A New Century of Progress and Opportunities, [Conference],  
 Philadelphia, PA, United States, Sept. 28-29, 1999 (1999), 221-234  
 Publisher: Society of Plastics Engineers, Brookfield, Conn.  
 CODEN: 69ATIY  
 DT Conference; General Review  
 LA English  
 AB A review with 16 refs. Breathable, or water vapor permeable films made  
 from **TPE**, are finding increasing applications in the medical and  
 garment industries. Their purpose is to protect the user against weather  
 conditions like wind and cold rain, or biohazards like blood borne  
 pathogens. Deerfield Urethane, Inc. and its affiliate, Wolff Walsrode AG,  
 have successfully developed a range of breathable **TPE** films  
 based on ether type soft segment **chem**. The various grades of  
 Pebatex, Walotex and Dureflex films have amide (PEBA), urethane (TPU) or  
 ester (PEE) hard segments. The characteristic properties of ether-based  
**TPE**-like processability, elasticity, permeability and strength  
 make this class of polymers perfectly suited for the application at hand..  
**TPEs** are extruded to form self-supporting films, which are  
 designed for the lamination to textile **fabrics**. The **TPE**  
 film serves as climate membrane by forming the **barrier** for wind,  
 dust and droplets, while still allowing perspiration to escape, a process  
 referred to as water vapor transmission (WVT). These laminates are among  
 other applications being used for the manuf. of all weather apparel, shoes  
 and personal protective equipment. The membrane application is described  
 and the pros and cons of the various **TPEs** used are discussed.  
 RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 112 1-35 bib,abs

L12 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2002 ACS  
 AN 2002:661090 CAPLUS  
 DN 137:202514  
 TI Laminated sheet having thermoplastic polyurethane elastomer surface layer  
 for thermoforming  
 IN Uno, Hiroaki; Miyake, Akitaka  
 PA Sekisui Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002248709	A2	20020903	JP 2001-48506	20010223

AB The sheet consists of the **thermoplastic** polyurethane  
**elastomer** surface layer contg. elastic fine particles, a propylene  
 polymer adhesive layer having heat of crystal melting .gtoreq.25 J/g at  
 .gtoreq.130.degree. and .ltoreq.45 J/g at .gtoreq.150.degree., and a  
**polyolefin** support layer wherein thermoforming temp. on the  
 surface layer is 100-140.degree.. The sheet provides thermoformed  
 product, useful for automobile interior parts, etc., with good matte  
 appearance on the surface. Thus, 50:50:100 mixt. of a  
**thermoplastic** polyurethane **elastomer** (PN 3429), the  
 polyurethane **elastomer** (Miractran E 990P), and elastic fine  
 particles (Burnock CFB 101-40) as the surface layer, maleic acid-modified  
 polypropylene (Admer AT 1677) as an adhesive layer, and 50:30:10:10 mixt.  
 of **thermoplastic polyolefin elastomer**

=> s 12 and 16  
L9 0 L2 AND L6

=> s 12 and 15  
L10 1 L2 AND L5

=> s 11 and 16  
L11 320 L1 AND L6

=> s 13 and 111  
L12 35 L3 AND L11

=> d 17 bib,abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 2001:906198 CAPLUS  
DN 136:38572  
TI **Composite chemical barrier fabric**  
with enhanced durability  
IN Carroll, Todd Robert  
PA USA  
SO U.S. Pat. Appl. Publ., 10 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001051481	A1	20011213	US 1998-128721	19980804

AB A flexible, heat-sealable, **composite chem. barrier fabric**, which exhibits enhanced durability characteristics, comprises a multi-layered **chem. barrier material or fabric** that is coated on 1 or both sides with a layer of halogen-free thermoplastic olefin resin (**TPO**). **Fabrics** having this structure show enhanced durability characteristics, while maintaining a high degree of **chem.** resistance and heat sealability. More specifically, embodiments are included that show order of magnitude increases in various measures of durability including flex crack resistance, abrasion resistance, and puncture resistance as compared to un-coated **fabrics**.

=> d his

(FILE 'HOME' ENTERED AT 09:08:31 ON 27 NOV 2002)

FILE 'CAPLUS' ENTERED AT 09:09:13 ON 27 NOV 2002

L1 340946 S COMPOSITE OR LAMINATE  
L2 57 S CHEMICAL (L) BARRIER (L) FABRIC  
L3 150 S THERMOPLASTIC POLYOLEFIN ELASTOMER  
L4 2611 S TPO  
L5 1111 S TPE  
L6 1738 S THERMOPLASTIC (L) POLYOLEFIN (L) ELASTOMER  
L7 1 S L1 AND L4 AND L2  
L8 0 S L2 AND L5 AND L6  
L9 0 S L2 AND L6  
L10 1 S L2 AND L5  
L11 320 S L1 AND L6  
L12 35 S L3 AND L11

=> d 110 bib,abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

(Milastomer 8030N), the **polyolefin elastomer** (Milastomer 5030N), LLDPE (UZ 2021L), and polypropylene (F 650) as the support layer were coextruded and laminated with a polypropylene foam (Softlon SPV 1502) on the support layer to give the sheet, which was thermoformed in vacuo at 105.degree. to give a test piece having gloss 1.8% and good surface appearance.

L12 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2002:636547 CAPLUS

DN 137:156024

TI **Thermoplastic polyolefin elastomer**

composition and **laminate** made of the composition

IN Tominaga, Takeshi; Hamanaka, Tatsuo

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002234973	A2	20020823	JP 2001-33585	20010209
---------------	----	----------	---------------	----------

PI JP 2002234973

AB The compn. contains 100 parts of a **polyolefin thermoplastic elastomer** and 0.01-0.45 part of a fluoropolymer. The **laminate** is that obtained by laminating of the compn. on a **thermoplastic elastomer** core layer or on a cellular core wherein addn. of the compn. around a die in the extruder in lamination is avoided. Thus, a compn. of 100 parts of a mixt. contg. 70 parts of an oil-extended EPDM (ethylene/propylene = 70/30), 30 parts of ethylen-propylene copolymer, and 0.2 part trimethylolpropane trimethacrylate and 0.24 part 2,5-dimethyl-2,5-di[(tert-butyl)peroxy]hexane was kneaded at 230.degree. for 60 s for dynamic vulcanization then 100 parts of the resulted compn. and 0.1 part fluoropolymer (Dynamar FX 5911X) were mixed and extruded without addn. around the extruder die.

L12 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2002:343574 CAPLUS

DN 136:326742

TI Vacuum-molded laminated moldings

IN Araki, Kazuo; Tabata, Toshio

PA Shigeru Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002127318	A2	20020508	JP 2000-329819	20001030
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PI JP 2002127318

AB The moldings, useful as automobile interior parts, are made of laminated sheets comprising a skin layer successively laminated with a cushioning layer and a core layer contg. 30-40% polypropylene and 55-65% polystyrene or ABS copolymer. A laminated sheet composed of a 0.4-1.6-mm **thermoplastic polyolefin elastomer** skin layer, a 1-4-mm polypropylene foam cushioning layer, and a 0.4-3-mm core layer contg. 30-40% polypropylene and 55-65% polystyrene shows good moldability.

L12 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2002:51356 CAPLUS

DN 136:103496

TI Resin **laminates**, leather-like sheets, automotive interior materials, and low-cost process for their manufacture

IN Shimada, Hidetoshi; Suzuki, Tomomasa

PA Idemitsu Technofine Co., Ltd., Japan  
SO PCT Int. Appl., 50 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002004204	A1	20020117	WO 2001-JP5897	20010706
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	JP 2002019031	A2	20020122	JP 2000-208657	20000710
	JP 2002019032	A2	20020122	JP 2000-208658	20000710
	JP 2002019033	A2	20020122	JP 2000-208659	20000710
	JP 2002113814	A2	20020416	JP 2000-308106	20001006
	JP 2002137335	A2	20020514	JP 2000-338140	20001106
	JP 2002160328	A2	20020604	JP 2000-361190	20001128
	AU 2001069471	A5	20020121	AU 2001-69471	20010706

PRAI JP 2000-208657 A 20000710  
JP 2000-208658 A 20000710  
JP 2000-208659 A 20000710  
JP 2000-308106 A 20001006  
JP 2000-338140 A 20001106  
JP 2000-361190 A 20001128  
JP 2000-2000208657A 20000710  
JP 2000-2000208658A 20000710  
JP 2000-2000208659A 20000710  
JP 2000-2000308106A 20001006  
JP 2000-2000338140A 20001106  
JP 2000-2000361190A 20001128  
WO 2001-JP5897 W 20010706

AB The **laminates** comprise in this order a **thermoplastic polyolefin elastomer** layer, a primer layer and a polyurethane layer, where the primer layer is made of a **thermoplastic polyolefin elastomer** contg. an adhesion improver from a compd. having a functional group contg. active hydrogen and/or a compd. having an inorg. nature/org. nature ratio of 0.5 or higher. Thus, kneading PW 90 (paraffin oil) 10 with TPO-E 2640 ( **polyolefin-based thermoplastic elastomer**) 100 at 160.degree., rolling into a sheet, coating a primer contg. TPO-E 2640 5, Sunmide 305 (polyamide-amine adhesion improver) 0.5 and xylene 100 parts on top to dry thickness of .apprx.5 .mu.m, drying at 110.degree., treating the primer surface with a corona discharge, coating a urethane primer soln. on its top, heating at 100.degree. for 30 s, and gravure coating with a layer contg. Resamine ME 44 (polyurethane) gave a laminated sheet with peel strength 842 N/cm.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 2002:21691 CAPLUS  
DN 136:71127  
TI **Thermoplastic polyolefin elastomers and their laminates with polyolefins**  
IN Kinoshita, Hideo; Yasui, Takeshi  
PA Asahi Chemical Industry Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002003664	A2	20020109	JP 2000-183119	20000619
AB	The elastomers, which are dynamically vulcanized and laminated on polyolefins, mainly contain (A) (partially) vulcanized ethylene-C3-20 .alpha.-olefin copolymers with .alpha.-olefin content 20-60% and d. <0.880 g/cm3, (B) polyolefins, and (C) <40 parts (based on 100 parts ethylene-.alpha.-olefin copolymers) oils for rubbers. Thus, a compn. contg. metallocene-catalyzed ethylene-1-octene (60/40) copolymer 100, MA 03 (isotactic polypropylene) 35, Perhexa 25B (radical initiator) 0.3, and divinylbenzene (vulcanizing aid) 0.7 part was blended and extruded under injection of 25 parts Diana Process Oil PW 380 (paraffin oil) to give a dynamically vulcanized elastomer, which was insert-molded with a polypropylene sheet to give a laminated product with vulcanization degree 75, Shore A hardness 67, tensile breaking strength 71 kg/cm2, elongation at rupture 600%, compression set 56%, and adhesion strength 3.8 kg/cm.				

L12 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:857429 CAPLUS

DN 136:12870

TI Thermal transfer printing receptor sheet having pressure-sensitive adhesive layer

IN Shirai, Koichi; Masuda, Kazuhiro; Ishida, Tadahiro; Oshima, Katsuyuki

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001328360	A2	20011127	JP 2000-152471	20000524
AB	The receptor sheet, useful for sublimation-transfer printing, consists of (I) a seal part which comprises a successive <b>laminate</b> of (A) a receptor layer, (A) a substrate composed of a holog. pattern-having layer and a flexible sheet, and (C) a pressure-sensitive adhesive layer, and (II) a release sheet attached on the adhesive layer. The sheet shows good decorative appearance and high flexibility to enable bonding on a curved surface.				

L12 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:805251 CAPLUS

DN 135:345721

TI Manufacture of excoriation- and oil-resistant **laminate** sheet with good adhesion strength

IN Miyake, Akitaka; Uno, Hiroaki

PA Sekisui Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001310420	A2	20011106	JP 2000-128094	20000427
AB	Title sheet, useful for automobile and household interiors, comprises (A) <b>thermoplastic polyolefin elastomer</b> -based substrate layer, (B) a polymeric adhesive layer, (C) a printing layer, and (D) a printing protective layer. Thus, a substrate layer comprising Milastomer 8030 and Ultzex 2021L was coextruded with an adhesive layer				

(Admer QF500), then laminated on a polypropylene foam and adhered the other surface with a protective layer (E990P)-covered urethane ink-based gravure printing layer to give a laminated film, showing good adhesion.

L12 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:702545 CAPLUS

DN 135:258170

TI Sound-insulating polyolefin sheets with excellent flexibility and fire resistance

IN Kaihara, Yuichi

PA Hagiwara Industries Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001260290	A2	20010925	JP 2000-77362	20000321
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AB The sheets, useful at construction sites, have fireproofing agent-contg. **polyolefin** layers on both surfaces of **laminates** of 2 fabrics, which are made of oriented **polyolefin** yarns and laminated via adhesive layers. Thus, a test piece manufd. from 2 polypropylene fiber fabrics and NNT 2005 (**thermoplastic polyolefin elastomer**) contg. 4% a 1:1:1 decabromodiphenyl oxide-bis(dibromopropyl ether) tetrabromobisphenol S-Sb203 mixt. showed good sound insulating properties and punchability.

L12 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:587085 CAPLUS

DN 135:154068

TI Heat-resistant laminated polypropylene fabrics and antislip surface materials for carpets equipped with electric heaters

IN Inoue, Tomoki

PA Hagiwara Industries Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001219513	A2	20010814	JP 2000-31576	20000209
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AB The fabrics comprise (A) base fabrics comprising oriented polypropylene yarns contg. 0.3-0.7% hindered amines and 0.3-0.7% antioxidants and (B) laminated layers (on both surfaces of A) comprising 30-70% propylene polymers and 30-70% **thermoplastic polyolefin elastomers**. Thus, a fabric made from polypropylene flat yarns contg. Cyasorb UV 3346 and Irganox 1010 was laminated with a 50:50 blend of polypropylene and Catalloy KS 025P to give a carpet surface material showing .gtoreq.50% retention of strength and elongation after heating at 120.degree. for 4500 h.

L12 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:587084 CAPLUS

DN 135:153963

TI Crosslinked **thermoplastic elastomer** compositions with good adhesion with **polyolefins**, and their **laminates**

IN Natsuyama, Nobuhiro; Shigematsu, Hironobu

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese



FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001219511	A2	20010814	JP 2000-30291	20000208
AB	<p>The compns., useful for lamination with crosslinked olefin rubbers, <b>polyolefins</b>, or <b>thermoplastic polyolefin elastomers</b>, comprise (A) <b>polyolefins</b>, (B) ethylene-.alpha.-olefin copolymer rubbers, (C) mineral oils, and (D) 0.01-1.0 part (to 100 parts A + B + C) nucleating agents. Thus, polypropylene 22.0, oil-extended EPDM rubber 78.0, Sumifine BM 0.4, Al p-tert-butylbenzoate 0.1, and 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane 0.8 part were mixed to give a compn., which was insert-molded with a <b>thermoplastic elastomer</b> plate (TPE 3782) to give a <b>laminates</b> showing interlayer adhesive strength 3.39 and 1.44 MPa at 23 and 80.degree., resp.</p>				

L12 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:586436 CAPLUS

DN 135:167704

TI Moldings with surface skins, their manufacture, and adhesives for them

IN Enami, Hirohide; Ono, Takeo; Kubomoto, Kenji; Okazawa, Takahide

PA Mitsuboshi Belting Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001219433	A2	20010814	JP 2000-32577	20000210
AB	<p>The moldings, useful for automobile instrument panels, etc., comprise a <b>thermoplastic polyolefin elastomer</b> slush-molded surface skin layer, a <b>polyolefin</b> core layer, and a <b>thermoplastic</b> polyurethane adhesive layer between them. Thus, a surface skin consisting of an outer layer of propylene polymer (XK 0286) and ethylene-octene rubber (EG 8400) and an inner foam layer of the propylene polymer, polypropylene (HT 441), and hydrogenated styrene-butadiene rubber (Dynaron 2320P) was laminated with polypropylene core layer via a water-expanded adhesive comprising polypropylene glycol-1,4-butanediol-diisocyanate (Sumidur PC) copolymer to give a test piece showing good interlayer adhesion, smooth surface, and recyclability.</p>				

L12 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:534477 CAPLUS

DN 135:108492

TI **Thermoplastic polyolefin elastomer**

compositions and surface materials and **laminates** using the compositions

IN Kodera, Nobukazu; Tsuchida, Hiroyuki; Kamino, Atsushi; Kobayashi, Shigeo

PA Kureha Elastomer Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001200113	A2	20010724	JP 2000-8426	20000118
AB	<p>The compns. with Shore A hardness (JIS K-7311) 65-99 and gloss 5-50% are obtained by dynamic vulcanization of 20-90% ethylene-.alpha.-olefin copolymers and 10-80% propylene polymers in the presence of radical vulcanization initiators and 0-80% of the compns. may be replaced with ethylene and/or propylene polymers. The surface materials and <b>laminates</b> comprise rigid substrates laminated with the above</p>				

comps. Thus, a compn. contg. Engage 8180 (ethylene-octene rubber) 80, Polypro F 327D (polypropylene) 20, and Perhexa 25B (radical vulcanization initiator) 1.0 part was kneaded at 180-200.degree. to give an elastomer with Shore A hardness 79, gloss 5%, melt-flow rate 4 g/10 min, and good soiling resistance and adhesion to a SUS 303 sheet via an Admer (adhesive) film.

L12 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:505362 CAPLUS

DN 135:93619

TI Laminated plastic films for bonding with leather

IN Lederer, Herbert; Zwettler, Roland

PA Konrad Hornschuch A.-G., Germany

SO Ger., 10 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10001210	C1	20010712	DE 2000-10001210	20000114

PI DE 10001210 C1 20010712 DE 2000-10001210 20000114

AB The title films, giving products with good odor and resistance to heat and aging, comprise upper layers of **thermoplastic polyolefin elastomers** [Shore D hardness 28-35, melt index (230.degree./2.16 kg) 0.4-0.8 g/10 min], e.g., EPR-modified polypropylene, for bonding to leather and lower layers of **thermoplastic** foams, e.g., polypropylene, for bonding to supports (e.g., wood, metals); the upper and lower layers being treated with polyurethane coupling agents.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:459794 CAPLUS

DN 135:62556

TI **Thermoplastic polyolefin elastomer**-based

skin materials showing good vacuum and stamping moldability for automobile interiors

IN Ito, Yuichi; Uchiyama, Akira

PA Mitsui Chemicals Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001171439	A2	20010626	JP 1999-358922	19991217

PI JP 2001171439 A2 20010626 JP 1999-358922 19991217

AB The materials are dynamically crosslinked olefin-based **thermoplastic elastomer** comps. consisting of **polyolefins**, ethylene-.alpha.-olefin copolymer rubbers and/or ethylene-.alpha.-olefin-nonconjugated polyene copolymer rubbers, propylene-ethylene copolymers and/or propylene-1-butene copolymers, and optionally polyethylenes (d 880-940 kg/m3). The skin materials may have .ltoreq.300-.mu.m surface layers contg. polyurethanes, satd. polyesters, acrylate resins, PVC, and/or isocyanate resins or may be **laminates** with **polyolefin** foams. Thus, 100 parts of a **thermoplastic elastomer** compn. contg. propylene-ethylene block copolymer 30, ethylene-propylene-5-ethylidene-2-norbornene copolymer rubber 45, and propylene-ethylene copolymer 25 parts was dynamically crosslinked with an org. peroxide and divinylbenzene, mixed with 40 parts ethylene-4-methyl-1-pentene random copolymer and 60 parts propylene-ethylene block copolymer, extruded, laminated with Softlon (polyethylene foam sheet), coated, and vacuum-formed to give a molding having a desired shape and patterns.

L12 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:403604 CAPLUS

DN 135:20999

TI One-component coating compositions using chlorinated olefin polymers modified with vinyl monomers

IN Togaru, Kazuhiko; Yoshida, Hideaki; Nemoto, Tsutomu; Okazaki, Toshiaki; Kai, Hiroyuki

PA Toyota Auto Body Co., Ltd., Japan; Fujikura Kasei Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 2001152078	A2	20010605	JP 1999-332680	19991124
AB	The compns. for coating both propylene polymers and <b>thermoplastic polyolefin elastomers</b> (TPO), comprise (a) the title polymers prepd. by polymg. chlorinated olefin polymers (Cl content 15-50%) with (meth)acrylate esters and/or comonomers, (b) flexible components, and (c) flexible fillers. Thus, an integral TPO airbag cover-polypropylene instrument panel <b>composites</b> were coated with a compn. contg. chlorinated polypropylene modified with Me (meth)acrylate, flexible polyester, urethane beads, and other additives and showed good adhesion, resistance to oily stain, and no crack in bending test.				

L12 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:319525 CAPLUS

DN 134:327719

TI Olefinic thermoplastic elastomers, compositions and uses thereof

IN Itoh, Yuichi

PA Mitsui Chemicals, Inc., Japan

SO Eur. Pat. Appl., 20 pp..

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 1095979	A1	20010502	EP 2000-122377	20001025
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001200116	A2	20010724	JP 2000-322856	20001023
	CN 1300796	A	20010627	CN 2000-137488	20001025
PRAI	JP 1999-301908	A	19991025		
AB	The thermoplastic elastomers comprising an olefin resin and an olefin copolymer rubber have a characteristic feature that it satisfies, when a grained sheet made of the elastomers is subjected to a male vacuum forming at least at a point of sheet temp. within the range of 130-150.degree., the condition that the grain retention rate expressed by the proportion of the grain depth of the sheet retained after the male vacuum forming relative to the grain depth before the male vacuum forming represented by percent meets the relation defined by the following equation: % retention of grain .gtoreq. 100 - 2.0 .times. (T - 120), where T represents the sheet temp. upon the male vacuum forming. The elastomers are capable of producing a sheet applicable for prepg. a covering skin sheet for interior furnishings in automobile superior in the formability, heat resistance, mech. properties, tensile characteristics, strain restorability and repulsive elasticity together with superior grain retention performance upon a male vacuum forming of the sheet.				

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2001:290746 CAPLUS

DN 134:312147

TI Vehicle seat made of lightweight polyolefin-based materials with good recyclability

IN Hasegawa, Kenichi; Miyashima, Iwao; Tanaka, Tetsuji; Yoshida, Takeshi; Yamaguchi, Masaaki; Tomisawa, Tsutomu

PA TS Tech K. K., Japan; Honda Motor Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001112587	A2	20010424	JP 1999-296295	19991019
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AB The seat, suitable for motorcycle, etc., consists of a cellular polypropylene bottom plate, a cellular polyethylene cushion on the bottom plate, and a **laminate** of a **polyolefin**-based **thermoplastic elastomer** leather and a polypropylene fiber fabric as the surface material on the cushion. The seat uses lightwt. **polyolefin**-based materials instead of conventionally used PVC and the materials can be easily sepd. in recycling.

L12 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2000:693176 CAPLUS

DN 133:351119

TI Recycling technology for **laminates** composed of **thermoplastic polyolefin elastomer** and crosslinked polypropylene foam

AU Tatsuda, Narihito; Sato, Norio; Fukumori, Kenzo; Kako, Chika; Nishimura, Hideo

CS TOYOTA Central R and D Labs. Inc., Aichi, 480-1192, Japan

SO Kobunshi Ronbunshu (2000), 57(9), 561-568

CODEN: KBRBA3; ISSN: 0386-2186

PB Kobunshi Gakkai

DT Journal

LA Japanese

AB The **laminates** composed of **thermoplastic polyolefin elastomer** (TPO) skin layers and crosslinked polypropylene (PP) foam layers have often been used for inner components of automobiles, such as instrument panels and door trim. In recycling the **laminates** by a simple melt-kneading method, the recycled material shows very poor mech. properties, because the PP foam cannot be dispersed into the TPO matrix due to its crosslinked structure. A new recycling technol. has been developed by using reactive extruder to eliminate the deterioration of mech. property. This technol. is based on resolving the crosslinked structure of PP foam by a reactive agent injected into the extruder, and finely dispersing decrosslinked PP foam into the TPO matrix by high shear force. Such reactive processing is also useful for decomp. azodicarbonamide, which is used as foaming agent for PP foam and causes deterioration of the surface flatness and the light resistance of TPO. The recycled material shows the properties similar to those of TPO. It is possible to use the recycled materials in place of TPO skin layers.

L12 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2000:251969 CAPLUS

DN 132:280198

TI Moldings of **laminates** of urethane thermoplastic elastomers as the surface layer and olefin thermoplastic elastomers as the base layer with good resistance to abrasion and oil and showing good surface touch

IN Miyake, Akitaka; Uno, Hiroaki

PA Sekisui Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000108261	A2	20000418	JP 1998-279858	19981001
AB	<p>The moldings have the surface layer mainly comprising urethane <b>thermoplastic elastomers</b>, an adhesive layer, and a base layer mainly comprising olefin <b>thermoplastic elastomers</b> and have the thickness of the surface layer <math>\geq 10 \mu\text{m}</math> and thickness of the adhesive layer <math>\geq 4 \mu\text{m}</math>. The moldings are useful for automobile interiors, office automation machines, home appliance housings, and building interior materials (no data). Thus, 100 parts polyester-polyurethane <b>elastomer</b> (PN 3429-215) and 90 parts Burnock CFB 101-40 (polyurethane elastic beads) were kneaded and pelletized to give pellets. The pellets as the surface layer, Admer QF 500 (acid-modified <b>polyolefin</b>) as the adhesive layer, and a blend contg. <b>thermoplastic polyolefin elastomer</b> (Milastomer 8030) 100, LLDPE (Ultzex 2021L) 20, and polypropylene (F 650) 20 parts were together extruded at die temp. 190.degree. and pressed to give a <b>laminate</b> having the surface layer 20 <math>\mu\text{m}</math> thick, adhesive layer 17 <math>\mu\text{m}</math> thick, and base layer 380 <math>\mu\text{m}</math> thick. The <b>laminate</b> was heated at surface temp. 115.degree. and back surface temp. 140.degree. and vacuum molded to give a molding exhibiting abrasion resistance rating (JIS L-0823; 5 no surface variation, 1 severe surface variation) 5, oil resistance rating 5, and layer adhesion rating 5.</p>				

L12 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2000:121862 CAPLUS

DN 132:167579

TI Crosslinked **thermoplastic polyolefin elastomer**  
composition for skin layers and laminated product containing skin layers  
IN Kobayashi, Kyoko; Karaiwa, Masato; Mizumoto, Kunihiko; Uchiyama, Akira  
PA Mitsui Chemicals Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000053826	A2	20000222	JP 1998-221417	19980805
AB	<p>The compn. contains 100 parts (partially) crosslinked <b>thermoplastic polyolefin elastomers</b>, 0.5-5 parts antistatic agent, and optionally 5-150 parts <b>polyolefins</b>. The <b>laminate</b> comprises a <b>thermoplastic elastomer</b> body and the skin layer made of the above compn. The compn. is suitable for glass run channel in automobile, etc. Thus, a blend of 65 parts ethylene-propylene-5-ethylidenenorbornene rubber and 35 parts polypropylene, 0.2 part divinylbenzene, and 1,3-bis[(tert-butyl)peroxyisopropyl]benzene were mixed and extruded to give a crosslinked <b>elastomer</b>, 100 parts of which was mixed with 3 parts antistatic agent (Electrostripper TS 6B), pelletized, and injection-molded to give test pieces having dynamic friction coeff. 0.38, static friction coeff. 0.26, and good sliding friction wear resistance.</p>				

L12 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 2000:23431 CAPLUS

DN 132:79668

TI Oil-resistant **thermoplastic polyolefin elastomer** sheet and manufacture method  
IN Ukai, Junzo

PA Toyota Motor Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000006224	A2	20000111	JP 1998-177271	19980624

AB The sheet is prepd. by extruding a **thermoplastic polyolefin elastomer**, wherein oil-resistant fine body **laminates** are localized to form an oil-barrier layer on one side of the surface layer. Thus, 100 parts 70:30:0.3:0.5 mixt. of ethylene-propylene-dicyclopentadiene rubber contg. 40 phr softener (PW 100), polypropylene, org. peroxide, and divinylbenzene and 30 parts silica microballoons (Fillite 200/7) were blended, melt-kneaded at 240.degree., and subjected to extrusion assocd. with cooling by air on 1 side at the output of the extruder to give a sheet having oil-resistant microballoon localized regions. An automobile interior part having the sheet as the surface layer showed no deformation after contacting with paraffin oil.

L12 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1999:462976 CAPLUS

DN 131:103420

TI **Thermoplastic polyolefin elastomer**-based decorative sheets with improved light resistance

IN Shimizu, Kazuhiko; Senbara, Kenshiro; Takahashi, Hiroaki; Kono, Kazuyasu

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11198309	A2	19990727	JP 1998-21583	19980120

AB Title sheets consist of a substrate, first primer layer, a printing layer, second primer layer, an adhesive layer, and a transparent surface layer in this order, where the substrate and the surface layer are composed of **thermoplastic polyolefin elastomers**, the first primer layer is composed of 2-liq. curable polyester-polyurethanes, the printing layer is composed of acrylic-polyurethane inks, and the second primer layer is composed of polyester polyols. Thus, a **thermoplastic olefin elastomer** substrate comprising isotactic polypropylene 100, SBR rubber 100, CaCO<sub>3</sub> 30, and pigments 10 parts was treated with corona discharge, coated with a primer soln. (polyester polyol-TDI mixt.), gravure-printed with an ink contg. a polyurethane-acrylic block copolymer binder, further coated with a polyester polyol primer, and then the backside of the substrate was coated with an acrylic polyol-TDI mixt. primer. Then a transparent sheet comprising a 60:40 isotactic polypropylene-atactic polypropylene mixt. contg. benzotriazole-type UV absorber was corona-treated, coated with an acrylic polyol-HMDI mixt. adhesive, and laminated on the surface of the printed sheet to give a decorative sheet showing no interlayer peeling after irradiation of UV for 200 h.

L12 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1999:286022 CAPLUS

DN 130:297760

TI **Polyolefin-based thermoplastic elastomer**

IN Mayumi, Junji; Ozu, Takahiro; Konno, Tetsuo; Shibatou, Keisuke; Ooi, Shigekazu; Kako, Chika; Nomura, Takao; Nishimura, Hideo; Ukai, Junzo; Nakamura, Naoyoshi; Yamamoto, Yuji; Horie, Takashi

PA Mitsubishi Chemical Corporation, Japan; Toyota Jidosha Kabushiki Kaisha;

Kyowa Leather Cloth Co., Ltd.  
SO PCT Int. Appl., 22 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9920681	A1	19990429	WO 1998-JP4761	19981021
	W: CA, CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 11124440	A2	19990511	JP 1997-289774	19971022
	EP 947541	A1	19991006	EP 1998-950320	19981021
	R: DE, FR				
PRAI	JP 1997-289774		19971022		
	WO 1998-JP4761		19981021		

AB **Thermoplastic polyolefin elastomer** is obtained by dynamically heating of a crosslinked compn. comprising (A) cryst. propylene polymer resin 10-80, (B) copolymer of ethylene with a vinyl monomer contg. a polar group 50-10, (C) copolymer rubber composed of (C1) 5-100 wt% propylene- $\alpha$ -olefin copolymer rubber (propylene 65-90 wt%) and (C2) 95-0 wt% olefin copolymer (propylene 15-60 wt%) 50-10 parts (A + B + C = 100), optionally (D) a softener for rubber 50-400 parts per 100 parts of C, in the presence of an org. peroxide. Thus, a **thermoplastic polyolefin elastomer laminate** sheet was prepd. by melt-blending of polypropylene 44 with ethylene-vinyl acetate copolymer 22, ethylene-propylene rubber 22, EPDM rubber 12, paraffin 91, and divinylbenzene 1 part in the presence of 2,5-dimethyl-2,5-di(t-butylperoxy)hexane at 200.degree. and 230 rpm for 40 s, followed by extruding of the compn. to a sheet, then laminating the sheet with a polypropylene foam sheet, showing hardness 86, wt. increasing rate 95%, and good brittle resistance at low temp., flexibility, sheet- and thermal processibility, oil-resistance and appearance.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1999:225455 CAPLUS  
DN 130:312883  
TI Laminated plastic sheets for covering substrates and their manufacture  
IN Miyake, Akitaka; Nakamura, Shoichi; Uno, Hiroaki  
PA Sekisui Chemical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11091048	A2	19990406	JP 1997-256915	19970922
AB	Title sheets consist of polyurethane-based top layers, polyamide or polyester intermediate layers, adhesive layers, and <b>thermoplastic polyolefin elastomer</b> -based base materials in this order and the sheets are used for protecting substrates from scratching or oil staining and for giving good feeling and touch on the surface. Thus, nylon 12 (Diamide L2) as the intermediate layer, an acid-modified <b>polyolefin</b> (Admer QF 500) as the adhesive layer, and 40:40:10:10 mixt. of a <b>thermoplastic polyolefin elastomer</b> (Milastomer 8030), another <b>thermoplastic polyolefin elastomer</b> (Milastomer 5030), LLDPE (Ultzex 2021L), and polypropylene (F 650) as the base layer were coextruded to give a <b>laminate</b> , which was further laminated with a cellular polypropylene sheet on the base side and laminated with 100:90 mixt. of				

polyester-polyurethane (Nippollan 5120) and elastic beads (Burnock CFB 101-40) as the top layer on the intermediate layer side to give title multilayer sheet showing good abrasion and oil resistance and good vacuum moldability.

L12 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1998:535563 CAPLUS

DN 129:190285

TI Polyolefin-based grain-embossed decorative construction sheets with improved V-cut processability

IN Shimizu, Kazuhiko

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10217404	A2	19980818	JP 1997-39695	19970210
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PI The sheets, useful for PVC substitutes without toxic combustion gases, comprise **laminates** of olefin-based thermoplastic elastomers (supports), grain-patterned ink layers, and transparent surface layers of olefin-based thermoplastic elastomers with wood patterns satisfying  $d_{max} < 2/3 \cdot dtot$  ( $d_{max}$  = max. groove depth of the embossed region;  $dtot$  = total thickness of the sheets) and  $d_{max} < (groove \text{ opening width})$ . The wood patterns are formed by embossing. Thus, 80:20 ( $\mu m$ -thick) Softrex (olefin-based thermoplastic elastomer, support)/Admer QF 305 **laminates** were coated with a urethane primer, printed with a PVC ink, and laminated with Tafmer XR 110T while embossing to give a decorative sheet showing no cracks and whitening in V-cut processing.

L12 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1998:256289 CAPLUS

DN 128:322837

TI Chlorine-free environment friendly washable lightweight floor mats for vehicles with good surface embossing properties

IN Kimura, Akimoto

PA Hino Motors, Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10109582	A2	19980428	JP 1996-286090	19961008
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PI The mats comprise (A) a surface layer consisting of a **thermoplastic polyolefin elastomer** or nonrigid polypropylene (I) sheet, (B) an intermediate layer comprising nonwoven fabrics of PET fibers or mixts. of PET fibers and I fibers and having sealed ends, and (C) a back layer consisting of I or polyethylene sheet. The mats are recyclable and evolve no Cl (g) on burning the mats.

L12 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1997:609932 CAPLUS

DN 127:279453

TI **Thermoplastic polyolefin elastomer** compositions and their moldings

IN Oyama, Hiroshi; Shigematsu, Hironobu; Hamanaka, Tatsuro

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent



LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09235421	A2	19970909	JP 1996-43721	19960229
AB	The compns. useful for manuf. of automobile weatherstrips contain (A) 100 parts olefin polymers, (B) ethylene-.alpha.-olefin copolymer rubber, and (C) 20-300 parts isobutylene polymers with Mn .gtoreq.10,000. The moldings are obtained by insert molding of the above molten compns. with crosslinked ethylene-.alpha.-olefin copolymer rubber compns. Thus, polypropylene 100, oil-extended ethylene-propylene-5-ethylidene-2-norbornene copolymer rubber 651.7, and polyisobutylene (Mn 25,000) 95.8 parts were kneaded, dynamically crosslinked with 0.64 part 2,5-dimethyl-2,5-bis(tert-butylperoxy)hexyl and 1.6 parts N,N'-phenylenebismaleimide to give a compn., which was insert-molded with crosslinked ethylene-propylene-5-ethylidene-2-norbornene copolymer rubber to give <b>composite</b> moldings with high adhesion strength.				

L12 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1997:558767 CAPLUS

DN 127:162988

TI Polyolefin compositions for surface materials with improved sliding properties and **laminates** of them

IN Endo, Hisafumi; Kamano, Shizuo

PA Advanced Elastomer Systems, L.P., USA

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09176408	A2	19970708	JP 1995-346094	19951211
AB	The compns. comprise 100 parts <b>thermoplastic polyolefin elastomer</b> compns. comprising partially or wholly crosslinked <b>polyolefin thermoplastic elastomers</b> , <b>thermoplastic polyolefins</b> , plasticizers, and fillers, 0.1-5 parts fatty acid amides, and 5-100 parts <b>polyolefins</b> and are useful for weatherstrips for automobiles. Santoprene 123-50 ( <b>thermoplastic elastomer</b> compn. contg. EPDM rubber) 100, polypropylene (BJ-500) 40, and erucylamide (Neutron-S) 3 parts were kneaded and injection molded to give test pieces with static frictional coeff. 0.40 and dynamic frictional coeff. 0.28 and exhibiting good surface smoothness on abrading the surface for 20,000 cycles by a specified test.				

L12 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1997:525979 CAPLUS

DN 127:191714

TI Moisture-permeable **composite** sheets, their manufacture, and absorbing products

IN Sato, Shinya; Masuki, Tetsuya; Kikuchi, Fumiaki; Gunji, Akihiko

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09201909	A2	19970805	JP 1996-11594	19960126
AB	Title sheets, which show good interlayer adhesion, are manufd. by melt-molding of mixts. of urethane and/or ester <b>elastomers</b> and <b>thermoplastic polyolefins</b> into sheets and laminating on fiber assemblies. The products, e.g. disposable diapers, etc., comprise				

liq.-permeable surface sheets, liq.-holding absorbents, and the **composite** sheets as back surface. Thus, a blend of 70 parts XG 830 (ester **elastomer**) and 30 parts A 702 (**thermoplastic** ethylene-Et acrylate copolymer) was molded into sheet and laminated on polyethylene nonwoven fabric to give a **composite** sheet showing moisture permeability 0.68 g/100 cm<sup>2</sup>-h and **lamine** strength 13.1 and 32.7 g/25 mm in machine and transverse direction, resp.

L12 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1997:266551 CAPLUS

DN 126:252206

TI Scratch-resistant flame-retardant thermoplastic polyurethane elastomer multilayer-laminated sheets

IN Nakamura, Shoichi; Myake, Akitaka; Ogasa, Masao

PA Sekisui Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09039137	A2	19970210	JP 1995-190212	19950726
AB	The sheets have (A) surface layers of <b>thermoplastic</b> polyurethane <b>elastomers</b> (TUE), (B) adhesive resin layers, (C) substrates comprising 100 parts <b>thermoplastic</b> resins and 5-100 parts flame retardants comprising N compds. and P compds., and optionally (D) cellular layers. Thus, a <b>lamine</b> comprised (a) a surface layer of E 375NMT (TUE) and 50% EAX 20 (elastic fine particle), (b) an adhesive layer of Tuftec M 1923 (acid-modified styrene-ethylene-butylene-styrene copolymer), (c) a substrate of 80 parts Milastomer 8030 ( <b>thermoplastic polyolefin elastomer</b> ) and 20 parts LLDPE and 8:2 a mixt. of tert-butylphosphonic acid and tris(2-hydroxyethyl) isocyanurate, and (d) a polypropylene cellular layer. The <b>lamine</b> had good layer adhesion, a flexible surface layer, and flame retardance.				

L12 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1995:759200 CAPLUS

DN 123:288977

TI Manufacture of formable laminated sheets with good touch, flexibility, scratch resistance, and dimensional stability

IN Myake, Akitaka; Uematsu, Tomoko; Hachiman, Koji

PA Sekisui Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07125127	A2	19950516	JP 1993-278494	19931108
	JP 3169489	B2	20010528		
AB	Title sheets are manufd. by successively laminating a <b>thermoplastic polyolefin elastomer</b> base layer and a <b>thermoplastic</b> urethane <b>elastomer</b> surface layer on a <b>thermoplastic</b> foam layer, .gtoreq.1 sides of foam layer being laminated with glass papers using an adhesive layer. Thus, a PN 3429 ( <b>thermoplastic</b> urethane <b>elastomer</b> ) surface layer, a Tuftec M 1943 (acid-modified styrene-ethylene-butylene-styrene type block copolymer) adhesive layer, and a base layer [Milastomer 8030N-UZ 2021L-F 650 (polypropylene) blend] were laminated, placed on an adhesive-bonded Grabestos FVP 045 (glass paper)-Softlon PP foam <b>lamine</b> and roll pressed to obtain a laminated sheet. A cup made				

therefrom showed good appearance and scratch resistance.

L12 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1995:576921 CAPLUS

DN 122:316610

TI **Thermoplastic elastomer** compositions and expanded  
**polyolefin laminates** therewith

IN Aoki, Shoji; Ozaki, Kazuyasu

PA Showa Denko Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 07062159	A2	19950307	JP 1993-206577	19930820
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AB The compns., useful for automobile interiors, comprise mixts. of 40-99% polyolefin elastomers and 1-60% chlorinated ethylene polymers, 0.1-40 phr halogen-type fireproofing agents, and 0.1-40 phr inorg. fireproofing agents, where the polyolefin elastomers are partially crosslinked and obtained by dynamically heating 20-80 parts polyolefins (A), 20-80 parts ethylene-.alpha.-olefin copolymer rubbers (B; A + B = 100), and 0.1-5 parts multifunctional compds. in the presence of org. peroxides. Thus, polypropylene 40, ethylene-propylene rubber 60, triallyl isocyanurate 1, and 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane 1 part were blended and melt kneaded at 160-200.degree. for 10 min to give a polyolefin elastomer, 90 parts of which was blended with a chlorinated polyethylene rubber 10, chlorinated paraffin 5, Sb2O3 5, and Stann OMF 0.5 part, melt kneaded, extruded into a sheet, and laminated with an expanded polypropylene sheet to give a **laminates** showing no bleeding and good self-extinguishing property.

L12 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1995:410448 CAPLUS

DN 122:162946

TI Lamination sheets with soft touch surface and manufacture of  
**laminates** by press molding using the same

IN Myake, Akitaka; Uematsu, Tomoko; Tsuji, Toshimitsu

PA Sekisui Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 06255047	A2	19940913	JP 1993-49145	19930310
JP 3212403	B2	20010925		

AB The title soft touch layer comprises a **thermoplastic** foam in which elastic microparticles or porous inorg. microparticles are dispersed. A soft touch layer was formed from Nippollan 5120, EBS300, carbon black, and azo foaming agent on a **thermoplastic polyolefin elastomer** sheet and used in injection molding of polypropylene.

L12 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1995:403582 CAPLUS

DN 122:293190

TI Multilayer sheets and their manufacture for covering molded plastics

IN Myake, Akitaka; Uematsu, Tomoko

PA Sekisui Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06344482	A2	19941220	JP 1993-138484	19930610
	JP 3169478	B2	20010528		

AB Sheets with soft handle and good scratch resistance comprise surface layers composed of **thermoplastic polyurethane elastomers** and optionally elastomeric powders, base layers composed of **thermoplastic polyolefin elastomers** and tackifiers, and expanded layers in this order and are manufd. by co-extruding the surface layers and the base layers and laminating the expanded layers on the base layers immediately after the co-extrusion. Thus, PN 3429 (**thermoplastic urethane elastomer**) as the surface and a mixt. of Milastomer 8030N 50, Milastomer 5030N 30, UZ 2201L (LLDPE) 10, F 650 (polypropylene) 10, and Youmex 1010 (acid-modified **polyolefin**) 5 parts as the base were coextruded and then an expanded polypropylene sheet was laminated on the resulting base surface to give a sheet showing good appearance, scratch resistance, and adhesion.

L12 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2002 ACS

AN 1994:79108 CAPLUS

DN 120:79108

TI Peelable packaging materials and their use in sealed containers

IN Nasu, Hiroshi; Nishitani, Fumio; Yokota, Tomohiro; Ogawara, Hiroshi; Doro, Toshuki

PA Sekisui Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05229050	A2	19930907	JP 1992-157649	19920617
PRAI	JP 1991-340871		19911224		

AB Title materials comprise heat-sealable layers formed from a mixt. of 100 parts low-crystallinity polyesters consisting of copolymers of .gtoreq.3 comonomers selected from dicarboxylic acids and glycols and/or copolymers of one dicarboxylic acid and one glycol with degree of crystn. .ltoreq.10% after film formation by melt extrusion and 5-100 parts **thermoplastic polyolefin elastomers** contg. crosslinked or uncrosslinked ethylene-propene rubbers or their mixts. with olefinic polymers and optionally 5-100 parts **thermoplastic polyester elastomers** with glass temp. (Tg) .ltoreq.10.degree.. Title materials may have a layer of polyesters mainly composed of 1,4-butanediol and terephthalic acid or its dialkyl ester adjacent to the heat-sealable layer and optionally have .gtoreq.1 of plastic film, metal foil, and paper laminated to the layer of polyesters. Title materials are used as lids and heat-sealed to containers molded from a low-crystallinity polyester sheet or from a **lamine** contg. an innermost layer of low-crystallinity polyesters or the materials are made into pouches by heat-sealing two sheets along the edge or by folding one sheet in two and heat-sealing the edge except the folding line. Thus, a dry blend of 70% 1,4-cyclohexanedimethanol-ethylene glycol-terephthalic acid (mol ratio 15:35:50) copolymer and 30% 30:70 mixt. of polypropylene and partially crosslinked ethylene-ethylidenenorbornene-propene rubber was co-extruded with PBT to give a 30 .mu.m-thick film having an 8 .mu.m-thick heat-sealable layer and a 22 .mu.m-thick PBT layer. Two sheets were placed in contact with their heat-sealable layers facing each other and heat-sealed at 150.degree. and 2 kg/cm2 for 1 s to give a pouch with peel strength 570 g/15mm and cohesive failure.

=> log y

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

109.41

109.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE  
ENTRY

TOTAL  
SESSION

CA SUBSCRIBER PRICE

-22.92

-22.92

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